

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2005/050001

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D405/04 A61K31/506 A61P33/06 C07F7/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P C07D C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, PAJ, EMBASE, BIOSIS, BEILSTEIN Data, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HIDALGO-ZARCO, FERNANDO ET AL: "Kinetic properties and inhibition of the dimeric dUTPase-dUDPase from Leishmania major" PROTEIN SCIENCE, 10(7), 1426-1433 CODEN: PRCIEI; ISSN: 0961-8368, 2001, XP008047778 the whole document	1,2,4-6, 8-13, 15-17, 19-24
X	CANO, V. ET AL: "Monomethoxytrityl derivatives of uridine as inhibitors of a human recombinant UDP-glucuronosyltransferase: UGT1*6" LIFE SCIENCES, 61(1), PL1-PL8 CODEN: LIFSAR; ISSN: 0024-3205, 1997, XP008047794 the whole document compound TRU AND MMTRU	12,13, 15-17, 19-22

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

3 June 2005

Date of mailing of the international search report

14/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

A. Jakobs

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 559 101 A (WEIS ET AL) 24 September 1996 (1996-09-24)  abstract; example 24 column 19	12,13, 15-17, 19-21
X	O'DELL, C. ALLEN ET AL: "Carbocyclic analogs of 3',4'-didehydro-2'-deoxyribofuranosyl-2,4(1H,3H)-pyrimidinediones" NUCLEOSIDES & NUCLEOTIDES , 13(9), 1929-37 CODEN: NUNUD5; ISSN: 0732-8311, 1994, XP008047788 abstract compounds 5B, 9B chart II page 1932, paragraph 3	12-17, 19-21
X	NIIHATA, SHIGEO ET AL: "Synthesis of 2',3'-didehydro-2',3'-dideoxy nucleosides from 2',2'-bis(phenylthio) nucleoside analogs" BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN , 68(8), 2327-9 CODEN: BCSJA8; ISSN: 0009-2673, 1995, XP008047808 abstract compound 5A	12-14, 16-20
X	TAKAMATSU, SATOSHI ET AL: "Convenient synthesis of fluorinated nucleosides with perfluoroalkanesulfonyl fluorides" NUCLEOSIDES, NUCLEOTIDES & NUCLEIC ACIDS , 21(11 & 12), 849-861 CODEN: NNNAFY; ISSN: 1525-7770, 2002, XP008047806 abstract; table 2; compounds 20-22	12-17, 19-21
X	HORWITZ, JEROME P. ET AL: "Nucleosides. IX. The formation of 2',3'-unsaturated pyrimidine nucleosides via a novel .beta.-elimination reaction" JOURNAL OF ORGANIC CHEMISTRY , 31(1), 205-11 CODEN: JOCEAH; ISSN: 0022-3263, 1966, XP008047787 abstract; compound IV	12-17, 19-21
X	VAN AERSCHOT A. ET AL.: "2,3'-DIFLUORO- AND 3'-AZIDO-2'-FLUORO SUBSTITUTED DIDEOXYPYRIMIDINES AS POTENTIAL ANTI-HIV AGENTS" BULL. SOC. CHIM. BELG, vol. 98, no. 12, 1989, pages 937-941, XP008047840 the whole document	12,13, 15-17, 19-22
	-/-	

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PCT/GB2005/050001

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 410 033 A (CLIVE ET AL) 25 April 1995 (1995-04-25)  abstract; example 5	12,13, 15-17, 19-21
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 289 (C-0956), 26 June 1992 (1992-06-26) & JP 04 077485 A (YAMASA SHOYU CO LTD), 11 March 1992 (1992-03-11) abstract	12-14, 16,17, 19,20
X	WO 95/07287 A (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS; GOSSELIN, GILLES;) 16 March 1995 (1995-03-16) abstract; compound 9A page 12, paragraph 2 - page 13, paragraph 1	12,13, 15-17, 19,20
X	BEACH J W ET AL: "A highly stereoselective synthesis of anti-HIV 2',3'-dideoxy-" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 57, no. 14, 1992, pages 3887-3894, XP002953555 ISSN: 0022-3263 compounds 16,23	12-14, 16,17, 19,20
X	WO 97/37691 A (LYNX THERAPEUTICS, INC) 16 October 1997 (1997-10-16)  abstract; example 1; compound 1	12,13, 15-17, 19-21
X	VON JANTA-LIPINSKI M ET AL: "Newly synthesized L-enantiomers of 3'-fluoro-modified beta-2'-deoxyribonucleoside 5'-triphosphates inhibit hepatitis B DNA polymerases but not the five cellular DNA polymerases alpha, beta, gamma, delta, and epsilon nor HIV-1 reverse transcriptase." JOURNAL OF MEDICINAL CHEMISTRY. 4 JUN 1998, vol. 41, no. 12, 4 June 1998 (1998-06-04), pages 2040-2046, XP002330488 ISSN: 0022-2623 scheme 1 compounds 6,8	12,13, 15-17, 19-21
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# INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 004 (C-1149), 6 January 1994 (1994-01-06) & JP 05 247082 A (JAPAN TOBACCO INC), 24 September 1993 (1993-09-24) abstract	12,13, 15-17, 19,20
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 249 (C-0948), 8 June 1992 (1992-06-08) & JP 04 054193 A (JAPAN TOBACCO INC; others: 01), 21 February 1992 (1992-02-21) abstract	12-14, 16,17, 19,20

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2005/050001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5559101	A	24-09-1996	CA 2203672 A1 EP 0788506 A2 JP 10507772 T WO 9613512 A2	09-05-1996 13-08-1997 28-07-1998 09-05-1996
US 5410033	A	25-04-1995	AU 5996994 A CA 2154999 A1 WO 9418214 A1 DE 69410083 D1 DE 69410083 T2 EP 0682670 A1	29-08-1994 18-08-1994 18-08-1994 10-06-1998 07-01-1999 22-11-1995
JP 04077485	A	11-03-1992	NONE	
WO 9507287	A	16-03-1995	FR 2709754 A1 DE 69407419 D1 DE 69407419 T2 EP 0717748 A1 WO 9507287 A1 US 2005101776 A1 US 2002120130 A1	17-03-1995 29-01-1998 30-07-1998 26-06-1996 16-03-1995 12-05-2005 29-08-2002
WO 9737691	A	16-10-1997	AU 2445997 A WO 9737691 A1	29-10-1997 16-10-1997
JP 05247082	A	24-09-1993	NONE	
JP 04054193	A	21-02-1992	NONE	